Project Id: UY6758GH

Task: Develop a Personal Finance Management Application

Objective:

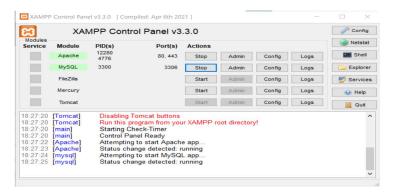
Create a command-line application that helps users manage their personal finances by tracking income, expenses, and generating financial reports.

About:

- The Personal Finance Management Application is a command-line application that is developed using Python and MySql on the basis of tasks allocated.
- This Project Document outlines the detailed usage of each module in the Finance Management Application and screenshots are also attached with the given features.
- The Project is Built upon Window System with Python 3.11 version along with Xampp Control Panel version v3.3.0.
- For running the Project, any machine user requires these basic requirements setup.

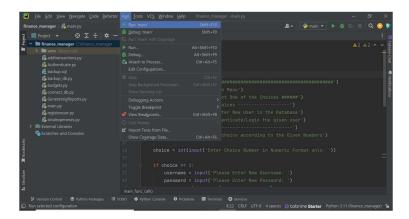
User Manual:

1. The first and foremost requirement before starting the project is to make sure that Xampp[MySql] is running in the Background otherwise it will lead to background errors in further when run the application.

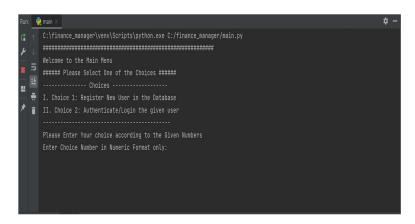


2. After starting the xampp and running the pycharm is to locate the main.py file.

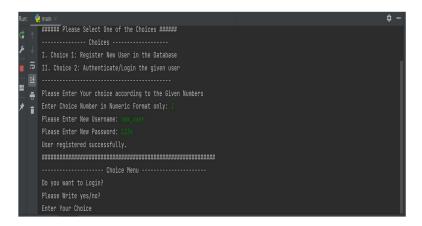
3. The, Next Step is to run the main.py File in the Terminal.



4. After Running the Main File In Pycharm Terminal the Main Menu Section of the Project will appear with details given as well on how to run the system.



5. For creating the new user, a user has to enter 1 and has to enter the username and password and the new user will be created in a database automatically as well.



I. After Creating, New a user can log in directly after a new user is created or can rerun the file as well to log in by selecting choice 2.

6. After selecting the choice 2, users have to fill in his/her credentials and if the credentials are correct, the user will be granted access to the system for further operations, otherwise he/she will not be able to get the access due to invalid credentials.

NOTE: After Successful Login, a user will also be displayed his user id that he she/must write down or save to perform operations further. Without correct user id, users will not be able to perform the operations.

```
Login successful! Now you can proceed with the application.
Your user ID is: 11
```

7. Now, the user can select multiple options among the available choices to perform the operations.

```
# Choice 1: Transaction-Based Choices

# Choice 2: Generate Reports

# Choice 3: Calculate Total Income, Expenses, and Savings

# Choice 4: Setting and Checking Your Budget

# Choice 5: For Back and Restore the Database.

Enter Choice:
```

NOTE: Choices should be Numeric only between 1 and 5. Other wise system will raise the errors.

8. For Creating New Transactions and other Transaction options, select 1.

I. For Creating New Transaction for the user in the Database Press 1. Example Format for Adding the choice for the user is also Given .

II. For Adding Expenses User has to Select Choice 2.

III. <u>Similarly, for Updating and Deleting a Transaction, User can select options 3 and 4 in the choice menu.</u>

9. Similarly, for Generating Monthly and Yearly Reports, users have to select Option2

I. For Generating Monthly Reports.

II. For Generating Yearly Reports.

10. Similarly, Calculating For Total Income and Expenses Choose Choice 3.

- 11. Similarly, For Setting and Checking Budget Choose Choice 4.
 - I. Setting the Budget.

II. Checking the Budget.

- 12. Similarly, For Backing Up the Database Choose Choice 5.
 - I. After Successful Backup of DataBase a successful Message will be Displayed.

```
# Choice 5: For Backup the Database.

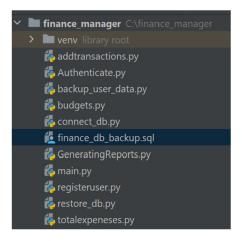
# Choice 6: For Restoring the Database.

Enter Choice (1-6): 5

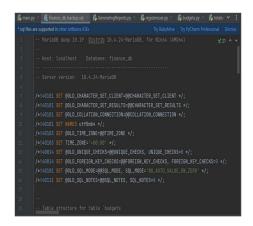
Backup of finance_db successful. Saved as finance_db_backup.sql

Process finished with exit code 0
```

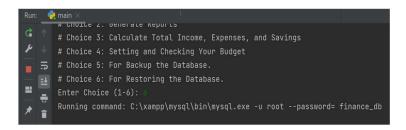
II. A new File with the name "<u>finance db backup</u>" will be created in a project folder that contains the backup of the original database.



III. Now you can also check file "finance db backup" which contains the database backup.



13. Similarly, For Backing Up the Database Choose Choice 6.



After Successful Backup of the Database the success message will be completed and file will be created in project folder as well that user can import in Db as well.